

**Driver Focus and Telematics
Interdisciplinary Working Group
Presentation NHTSA R&D
Quarterly**

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Presentation Outline

- Introduction/Background
- Working Group Composition
- Objectives
- Scope
- Basic Approach
- Summary/Status

Introduction/Background

- Introduction of Cellular Telephones (1983)
- Explosive Growth of In-Vehicle Technologies
 - Cell-Phones
 - Navigation Systems
 - Wireless Internet
 - Information and Entertainment Systems
- NHTSA Hosts Public Meeting on Safety Implications (July 18, 2000)
- Alliance Commits to Draft Principles for Design, Installation and Use of Telematic Devices to Minimize Distraction

Introduction/Background (cont'd)

- Alliance Submits Draft Principles Document to NHTSA (Dec 21, 2000)
- Principles Only the First Step
- Alliance Commits to More Fully Define Design and Performance Requirements
- Target Completion Date is Year End 2001

Working Group Formed

- Expanded Participation
 - ITSA
 - SAE
 - CEA
 - AAA
 - NHTSA
 - Transport Canada
- Full WG Meetings in March, May & July
- Technical Drafting Meetings In Between

Objectives

- **Summarize Essential Safety Aspects to Be Taken Into Account for HMI**
- **Should Be of Particular Use to Manufacturers When Considering Safety of Design**
- **Design and Installation Issues are the Main Concern**
- **Utilize Performance Based Goals to Minimize Unnecessary Obstacles or Constraints**

Scope

- **Concerned with Advanced Information and Communication Systems**
 - **Traveler Advisory Displays**
 - **Route Guidance**
 - **In-Vehicle Internet Access**
 - **Communications (e.g., Cell Phone)**
- **Not Intended to Apply to Collision Warning or Vehicle Control Systems**

Basic Approach

- Utilize the EC Statement of Principles on Human Machine Interface as a Starting Point
- EC Principles Framework has 6 Areas
 - Overall Design
 - Installation
 - Information Presentation
 - Interaction with Displays and Controls
 - System Behavior
 - Information About the System

Summary

- Interdisciplinary WG with Requisite Expertise Up and Running
- Committed to Produce Enhanced Document by the End of Year
- Work-In-Progress
 - **Science of Distraction Not Totally Understood**
 - **Verification Procedures Often Troublesome**
- After-Market Compliance May Be a Problem